

Appendix 4. Supplementary LMM outputs

4.1 Pre-intervention TAeK valuation index

Type III Analysis of Variance Table with Satterthwaite's method

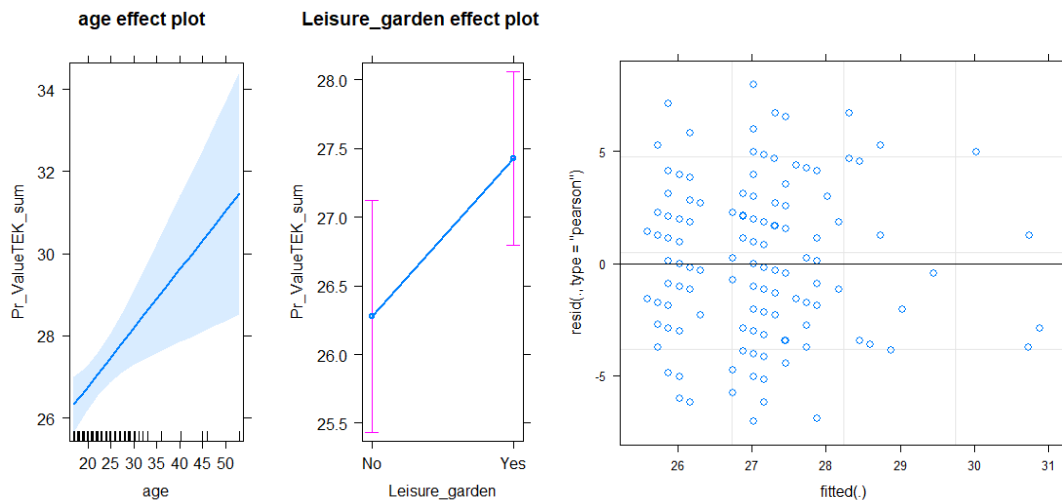
	Sum Sq	Mean Sq	NumDF	DenDF	F value	Pr(>F)
age	98.034	98.034	1	168	8.6647	0.003704 **
leisure_garden	44.519	44.519	1	168	3.9348	0.048927 *

Signif. codes: '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1

Most parsimonious linear mixed model fit by REML (Pseudo . t-tests use Satterthwaite approximations to degrees of freedom [lmerMod]). Formula: $Pr_TAeK_vsum \sim 1 + age + leisure_garden + (1 | class)$. REML criterion at convergence: 899.4. Number of obs: 171, groups: class, 15

Fixed effects	Estimate	Std.Error	df	tvalue	Pr (> t)
(Intercept)	23.17114	1.10926	168.0e+0 2	20.89	<2e-16***
age	0.14263	0.04723	168.0e+0 2	3.02	0.00292**
leisure_garden_yes	1.14675	0.53340	168.0e+0 2	2.15	0.03299*

Signif.codes: '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1



Correlation of Fixed Effects	(Intr)	Age
age	-0.923	
leisure_garden_yes	-0.294	-0.017

Random effects:

Groups	Name	Variance	Std.Dev.
class	(Intercept)	0.00	0.000
Residual		11.16	3.341

\$class	(Intercept)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0

Scaled residuals:

Min	1Q	Median	3Q	Max
-2.10366	-0.67044	0.03481	0.61227	2.38627

4.2 Pre-intervention TAeK access index

Type III Analysis of Variance Table with Satterthwaite's method

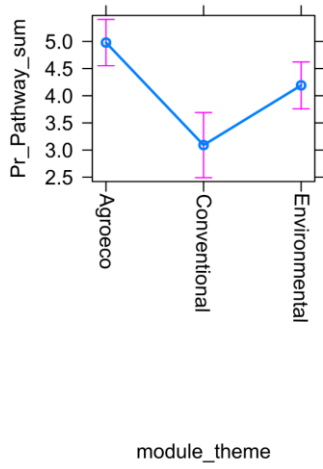
	Sum Sq	Mean Sq	NumDF	DenDF	F value	Pr(>F)	
program_theme	59.861	29.930	2	162	12.0204	1.357e-05	***
desired_work	29.429	7.357	4	162	2.9547	0.0216912	*
work_rural_nature	23.380	23.380	1	162	9.3896	0.0025568	**
Leisure_garden	34.102	34.102	1	162	13.6958	0.0002942	***

Signif. codes: '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1

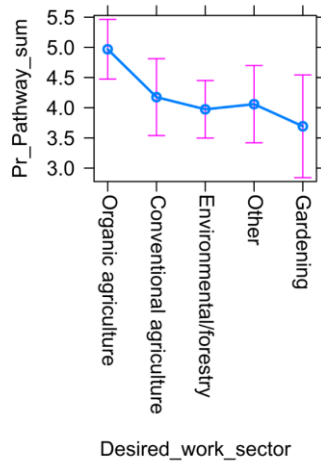
Most parsimonious linear mixed model fit by REML. t-tests use Satterthwaite's method [lmerModLmerTest] Formula: Pre_TAeK_a_{sum} ~ 1 + program_theme + desired_work + work_rural_nature + leisure_garden + (1 | class). REML criterion at convergence: 638.2. Number of obs: 171, groups: class, 15

Fixed effects	Estimate	Std. Error	df	t value	Pr (> t)
(Intercept)	4.6797	0.3650	162.0000	12.819	<2e-16***
program_theme Conventional	-1.8879	0.3887	162.0000	-4.857	2.79e-06***
program_theme Environmental	-0.7877	0.3216	162.0000	-2.449	0.015397*
desired_work Conventional agriculture	-0.7932	0.3916	162.0000	-2.025	0.044475*
desired_work Environmental/forestry	-0.9946	0.3658	162.0000	-2.719	0.007264**
desired_work Other	-0.9092	0.4121	162.0000	-2.206	0.028776*
desired_work Gardening	-1.2757	0.4936	162.0000	-2.584	0.010639*
Work_rural_natureYes	0.7757	0.2532	162.0000	3.064	0.002557**
Leisure_gardenYes	0.9894	0.2673	162.0000	3.701	0.000294***
Signif. codes: '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1					

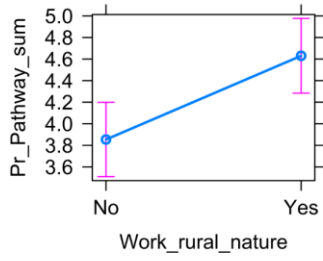
module_theme effect plot



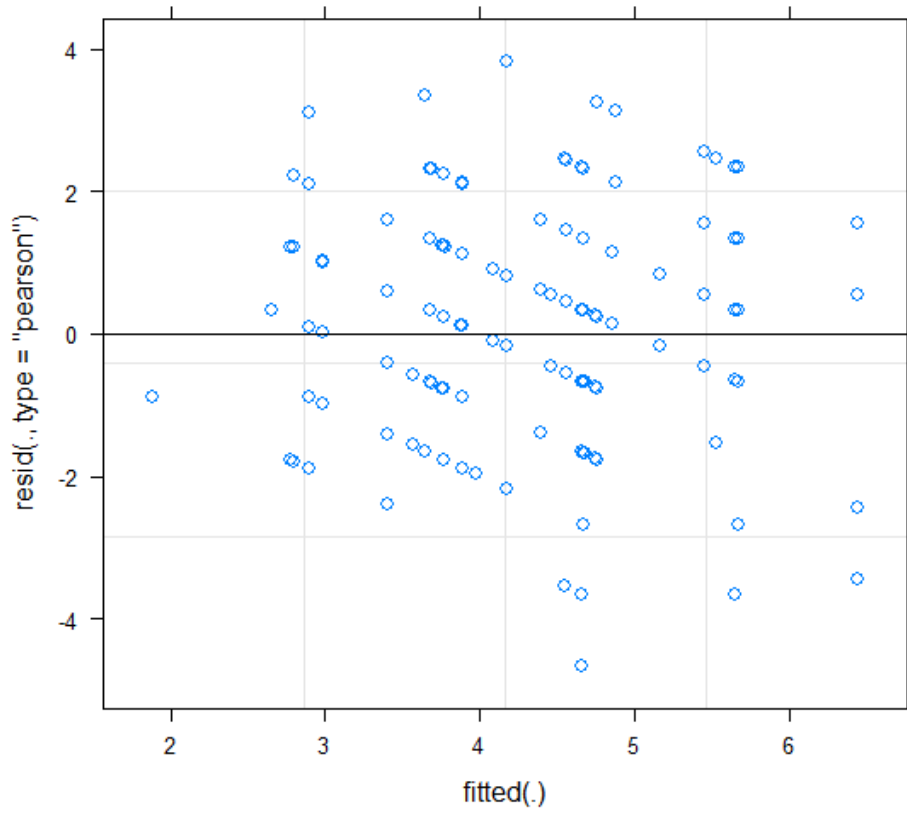
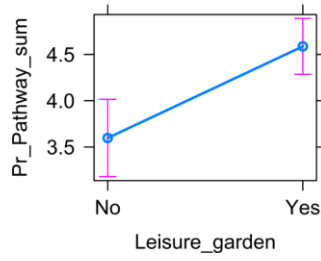
Desired_work_sector effect plot



Work_rural_nature effect plot



Leisure_garden effect plot



Correlation of Fixed Effects	(Intr)	pr_th Conv	pr_th Env	de_wo Conv	de_wo En/Fo	de_wo Oth	de_wo Gard	Work yes
program_theme Conventional	-0.414							
program_theme Environmental	-0.363	0.376						
desired_work Conventional	-0.225	-0.302	-0.102					
desired_work Environmental/forestry	-0.481	0.172	-0.332	0.344				
desired_work Other	-0.442	0.112	-0.086	0.328	0.477			
desired_work Gardening	-0.578	0.330	0.258	0.196	0.337	0.322		
Work_rural_nature_yes	-0.179	-0.199	-0.078	-0.025	0.026	-0.058	-0.074	
Leisure_garden-yes	-0.531	0.109	0.129	-0.104	0.057	0.086	0.208	-0.158

Random effects:

Groups	Name	Variance	Std.Dev.
class	(Intercept)	2.091e-16	1.446e-08
Residual		2.490e+00	1.578e+00

\$`class`	(Intercept)
111	8.256586e-16
121	-3.729046e-16
212	2.607870e-16
321	-6.253195e-19
323	1.776277e-16
414	-3.423947e-17
422	-1.051437e-17
513	-3.831467e-16
521	-6.771615e-16
522	-8.892559e-17
621	-5.708907e-17
622	4.017261e-16
722	1.151000e-16
812	-4.384147e-16
911	2.821219e-16

Scaled residuals:

Min	1Q	Median	3Q	Max
-2.9548	-0.5636	0.0650	0.6751	2.4210

4.3 Post intervention TAeK valuation index

Type III Analysis of Variance Table with Satterthwaite's method

	Sum Sq	MeanSq	NumDF	DenDF	Fvalue	Pr(>F)
Pre_TAeK_vsum	419.55	419.55	1	156.686	52.4136	1.897e-11 ***
treatment	36.15	18.08	2	10.105	2.2583	0.15463
gender_female	43.60	43.60	1	162.512	5.4467	0.02083 *
desired_work	110.28	27.57	4	136.310	3.4442	0.01025 *

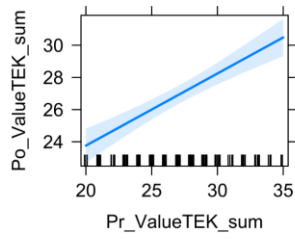
Signif. codes: '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1

Most parsimonious linear mixed model fit by REML. t-tests use Satterthwaite's method [lmerModLmerTest] Formula: Post_TAeK_vsum ~ 1 + Pre_TAeK_vsum + treatment + sex + desired_work + (1 | class). REML criterion at convergence: 843.6. Number of obs: 172, groups: class, 15

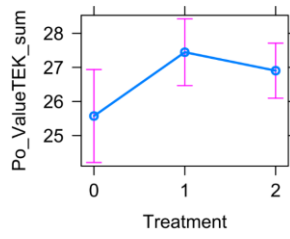
Fixed effects	Estimate	Std. Error	df	t value	Pr (> t)
(Intercept)	15.02391	1.88501	147.57539	7.970	3.97e-13***
Pre_TAeK_vsum	0.44823	0.06416	157.32076	6.987	7.51e-11***
treatment_talk	1.87197	0.87023	14.53101	2.151	0.04873*
treatment_talk+practical	1.33078	0.79913	11.38433	1.665	0.12311
gender_female	-1.40591	0.61017	162.66098	-2.304	0.02248*
desired_work	-2.32367	0.73306	148.06599	-3.170	0.00185**
conventional agriculture					
desired_work	-1.74521	0.63195	105.78336	-2.762	0.00678**
environmental/forestry					
desired_work	-1.70314	0.74548	162.04090	-2.285	0.02363*
other					
desired_work	-0.65308	0.86116	142.09345	-0.758	0.44948
gardening					

Signif. codes: '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1

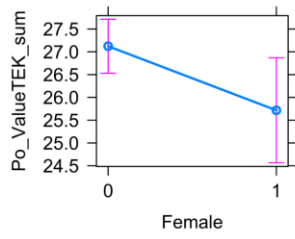
Pr_ValueTEK_sum effect plot



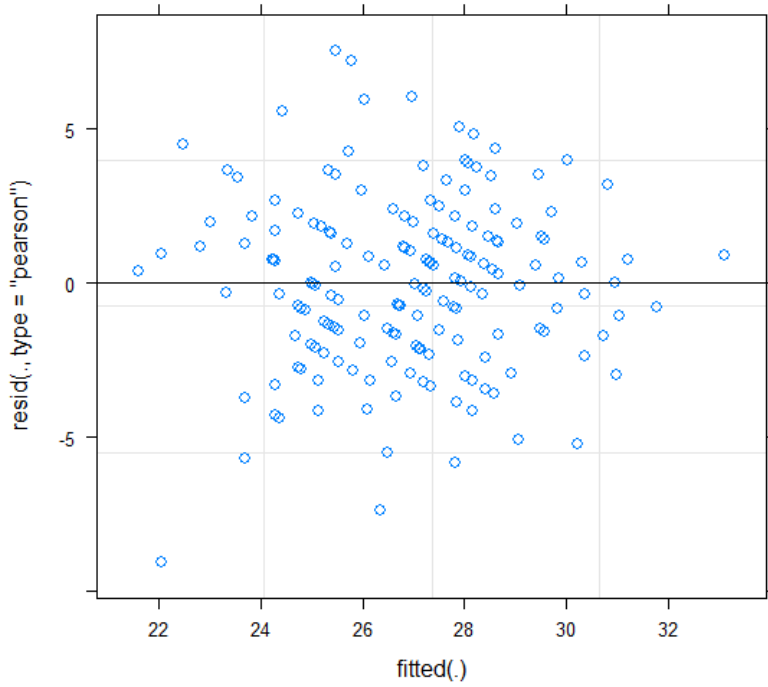
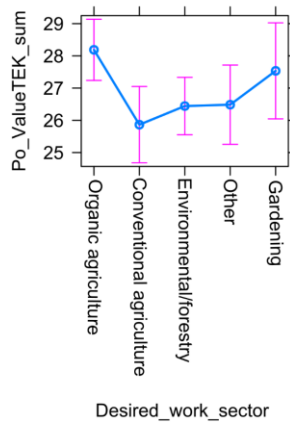
Treatment effect plot



Female effect plot



Desired_work_sector effect plot



Correlation of Fixed Effects	(Intr)	P_T_V	t_T1	t_T2	gender_f	de_wo Conv	de_wo En/Fo	de_wo Oth
Pre_TAeK_vsum	-0.904							
treatment_talk	-0.250	-0.062						
treatment_talk+practica	-0.270	-0.042	0.701					
gender_female	-0.038	-0.028	-0.077	-0.033				
desired_work conventional	-0.278	0.082	0.220	0.073	0.090			
desired_work environmental/forestry	-0.178	-0.006	-0.005	-0.024	0.190	0.443		
desired_work other	-0.086	-0.050	-0.022	-0.045	0.056	0.355	0.464	
desired_work gardening	-0.144	0.059	-0.083	-0.102	0.003	0.293	0.379	0.326

Random effects:

Groups	Name	Variance	Std.Dev.
class	(Intercept)	0.385	0.6205
Residual		8.162	2.8570

\$`class`	(Intercept)
111	-0.25929371
121	-0.18875031
212	0.06592474
321	-0.31691860
323	0.02329777
414	-0.01780835
422	0.53278626
513	0.09213350
521	0.35799334
522	-0.22243075
621	0.22697386
622	-0.24330489
722	0.53288689
812	-0.51655586
911	-0.06693389

Scaled residuals:

Min	1Q	Median	3Q	Max
-3.1658	-0.6160	0.0174	0.5666	2.6372

4.4 Post-intervention TAeK access index

Type III Analysis of Variance Table with Satterthwaite's method

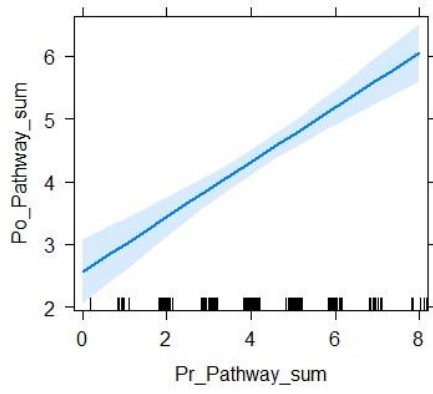
	Sum Sq	Mean Sq	NumDF	DenDF	F value	Pr(>F)
Pre_TAeK_asum	102.516	102.516	1	167	60.5018	7.233e-13 ***
treatment	14.404	7.202	2	167	4.2503	0.015832 *
desired_residence	13.922	13.922	1	167	8.2162	0.004687 *

 Signif. codes: '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1

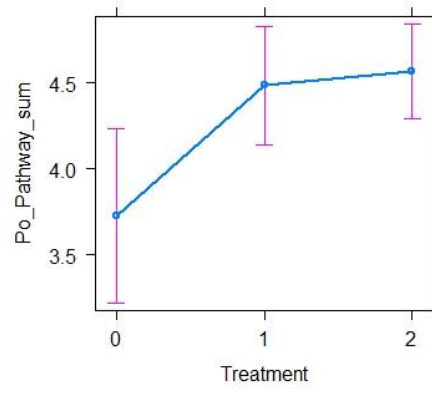
Most parsimonious linear mixed model fit by REML. t-tests use Satterthwaite's method [lmerModLmerTest] Formula: Post_TAeK_a_{sum} ~ 1 + Pre_TAeK_a_{sum} + Treatment + desired_residence + (1 | class). REML criterion at convergence: 583.6. Number of obs: 172, groups: class, 15

Fixed effects	Estimate	Std. Error	df	t value	Pr (> t)
(Intercept)	1.39638	0.36485	167.00000	3.827	0.000183 ***
Pre_TAeK_a _{sum}	0.43624	0.05608	167.00000	7.778	7.23e-13 ***
treatment_talk	0.75799	0.31202	167.00000	2.429	0.016187 *
treatment_talk+practical	0.84278	0.29317	167.00000	2.875	0.004571 **
desired_residence_yes	0.65787	0.22951	167.00000	2.866	0.004687 **
Signif.codes:***'0.001***'0.01**'0.05'.'0.1					

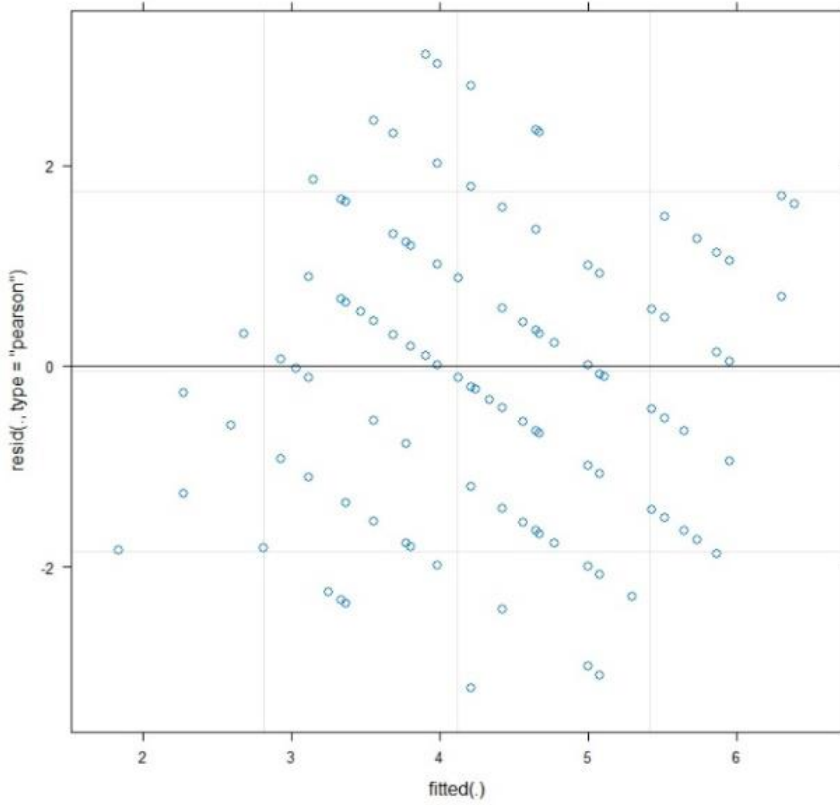
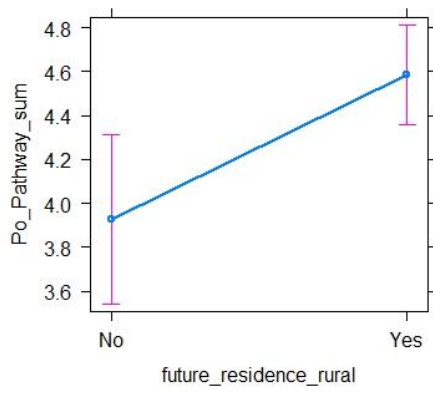
Pr_Pathway_sum effect plot



Treatment effect plot



future_residence_rural effect plot



Correlation of Fixed Effects	(Intr)	Pre_TAeK_Asum	treatment_T1	
Pre_TAeK_a _{sum}	-0.506			
treatment_talk	-0.490	-0.174		
treatment_talk+practical	-0.613	-0.090	0.729	
desired_residence_yes	-0.439	-0.121	0.032	0.108

Random effects:

Groups	Name	Variance	Std.Dev.
class	(Intercept)	0.000	0.000
Residual		1.694	1.302

\$`class`	(Intercept)
111	0
121	0
212	0
321	0
323	0
414	0
422	0
513	0
521	0
522	0
621	0
622	0
722	0
812	0
911	0

Scaled residuals:

Min	1Q	Median	3Q	Max
-2.46273	-0.62135	-0.02063	0.70814	2.38201